

1985 Index by Subject to Algorithms

Algorithms from ACM publications are included here. A cumulative index to algorithms published in *Communications*, the *ACM Transactions on Mathematical Software*, and the *ACM Transactions on Programming Languages and Systems* from 1960 through 1980 may be consulted in "Collected Algorithms from ACM," which is a looseleaf collection of all algorithms, each with certifications and remarks, if any, appended. The 1981 through 1984 indexes appear in the respective December issues of *Communications*.

POLYNOMIALS OPERATIONS ON (C1)

Winkler, F., Buchberger, B., Lichtenberger, F., Rolletschek, H. Algorithm 628: An Algorithm for Constructing Canonical Bases of Polynomial Ideals. *ACM Trans. Math. Soft.* 11,1 (Mar. 1985) 66-78.

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Novotny, M. Remark on Algorithm 30. *ACM Trans. Math. Soft.* 11,2 (June 1985) 183-184.

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Hanson, R.J. Remark on Algorithm 584 by D.P. Laurie. *ACM Trans. Math. Soft.* 11,4 (Dec. 1985).

PARTIAL DIFFERENTIAL EQUATIONS (D3)

Houstis, E.N., Mitchell, W.F., Rice, J.R. Algorithm 637: Algorithms Intcol and Hermcol: Collocation on Rectangular Domains with Bicubic Hermite Polynomials. *ACM Trans. Math. Soft.* 11,4 (Dec. 1985).

Houstis, E.N., Mitchell, W.F., Rice, J.R. Algorithm 638: Collocation Software for Second Order Elliptic Partial Differential Equations. *ACM Trans. Math. Soft.* 11,4 (Dec. 1985).

INTEGRAL EQUATIONS (D5)

Bownds, J.M., Appelbaum, L. Algorithm 627: A FORTRAN Subroutine for Solving Volterra Integral Equations. *ACM Trans. Math. Soft.* 11,1 (Mar. 1985) 58-65.

Atkinson, K.E. Algorithm 629: An Integral Equation Program for Laplace's Equation in Three Dimensions. *ACM Trans. Math. Soft.* 11,2 (June 1985) 85-96.

INTERPOLATION (E1)

Norton, V. Algorithm 631: Finding a Bracketed Zero by Larkin's Method of Rational Interpolation. *ACM Trans. Math. Soft.* 11,2 (June 1985) 120-134.

Preusser, A. Remark on Algorithm 526. *ACM Trans. Math. Soft.* 11,2 (June 1985) 186-187.

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Bortels, R.H., Jezioranski, J.J. Algorithm 634: CONST and EVAL: Routines for Fitting Multinomials in a Least-Squares Sense. *ACM Trans. Math. Soft.* 11,3 (Sept. 1985) 218-228.

MINIMIZING A FUNCTION (E4)

Buckley, A., Lenir, A. Algorithm 630: BBVSCG—A Variable-Storage Algorithm for Function Minimization. *ACM Trans. Math. Soft.* 11,2 (June 1985) 103-119.

MATRIX OPERATIONS, INCLUDING INVERSION (F1)

Coleman, T.F., Garbow, B.S., Moré, J.J. Algorithm 639: FORTRAN Subroutines for Estimating Sparse Hessian Matrices. *ACM Trans. Math. Soft.* 11,4 (Dec. 1985).

Laub, A.J. Algorithm 636: Efficient Calculation of Frequency Response Matrices from State Space Models. *ACM Trans. Math. Soft.* 11,4 (Dec. 1985).

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Streit, R.L. Algorithm 635: An Algorithm for the Solution of Systems of Complex Linear Equations in the \mathcal{L}_∞ Norm with Constraints on the Unknowns. *ACM Trans. Math. Soft.* 11,3 (Sept. 1985) 242-249.

SIMPLE CALCULATIONS ON STATISTICAL DATA (G1)

Hill, I.D., Pike, M.C. Remark on Algorithm 299. *ACM Trans. Math. Soft.* 11,2 (June 1985) 185.

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Martello, S., Toth, P. Algorithm 632: A Program for the 0-1 Multiple Knapsack Problem. *ACM Trans. Math. Soft.* 11,2 (June 1985) 135-140.

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This index contains position statements that appeared in the ACM Forum and letters to the ACM Forum pertaining to articles and position statements in *Communications*. Following are

the two position statements, and the letters and their related articles.

POSITION STATEMENTS

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8528	5	453	"Publication on Partisan Issues," Brandin, D. (Strategic Computing: An Assessment, S.M. Ornstein, B.C. Smith, and L.A. Suchman, Feb. 1985, pp. 134-136; and Reliability of Computer Systems and

- 8528 6 565 Risks to the Public, a President's letter by A. Goldberg, Feb. 1985, pp. 131-133; response from R.L. Ashenhurst, May 1985, pp. 453 and 560.
- 8528 6 568 "Follow-Up on the Industry-University Dialogue," letters from *Herbst, R.T., Matley, B.G., Geller, D.P., and Gourd, R.S.* (Computer Science Education Today: A Dialogue, Mar. 1985, pp. 251-262); see also letter from G. Parikh, Aug. 1985, p. 790; letter from D. Dunham, Aug. 1985, p. 790; letter from T. Gilb, Aug. 1985, pp. 790-791; letter from R.C. Eggleston, Sept. 1985, p. 893; and letter from J.A. Wills, Oct. 1985, p. 1025.
- 8528 6 568 "On Research Proposal Review," letters from *Benson, D.B., Johnston, E.G., and Lauer, H.C.* (There Are Problems with the Review Process, a Viewpoint by L. Snyder, Apr. 1985, pp. 349 and 403).
- 8528 8 789 "Computers, Public Policy, and Risks to the Public," *Neumann, P.G.* (Reliability of Computer Systems and Risks to the Public, a President's Letter by A. Goldberg, Feb. 1985, pp. 131-133).
- 8528 8 789 "Distribution of ALTRAN," *Macor, J.L.* (Symbolic Mathematical Computation, S. Wolfram, Apr. 1985, pp. 390-394).
- 8528 8 791 "What is Computer Science?" *Oursuff, N.* (The 1984 Snowbird Report: Future Issues in Computer Science, J. Tartar, ed., May 1985, pp. 490-493).
- 8528 8 792 "Ethics in Computer Education," *Compton, P.* (Reflections on Trusting Trust, K. Thompson, Aug. 1984, pp. 761-763).
- 8528 9 894 "Rights Violation in Turkey Denied," letters from *Akan, N.F., Basoglu, H., and Gungor, I.* (Computer Professionals Whose Scientific Freedom and Human Rights Have Been Violated—1984: A Report of the ACM Committee on Scientific Freedom and Human Rights, J. Minker, ed., Jan. 1985, pp. 69-78); response from J. Minker, Sept. 1985, pp. 895 and 1022; see also letter from Y. Uckan, Dec. 1985, p. 1271.
- 8528 10 1025 "Avoiding AWKwardness," *Abrahams, P.W.* (Associative Arrays, a Programming Pearls column by J. Bentley, June 1985, pp. 570-576).
- 8528 10 1026 "On Mathematics and Computing Education," letters from *Findler, N.V. and Hartung, H.A.* (Mathematics and Computing Education: A Common Cause, a Viewpoint by L.A. Steen, July 1985, pp. 666-667).
- 8528 11 1117 "Strategic Computing at DARPA," *Jacky, J.* (Strategic Computing at DARPA: Overview and Assessment, M. Stefik, July 1985, 690-704); response from M. Stefik, Nov. 1985, pp. 1118-1119.
- 8528 11 1119 "On Systemic Awareness," *Smith, R.L.* (A Discipline in Crisis [The Snowbird Report], P.J. Denning, ed., June 1981, pp. 370-374; Experimental Mathematics: The Role of Computation in Nonlinear Science, D. Campbell, J. Crutchfield, D. Farmer, and E. Jen, Apr. 1985, pp. 374-384; Designing for Usability: Key Principles and What Designers Think, J.D. Gould and C. Lewis, Mar. 1985, 300-311; Environmental and Institutional Models of System Development: A National Criminal History System, K.C. Laudon, July 1985, pp. 728-740; A Pragmatic View of the System Architect, J.A. Mills, July 1985, pp. 708-717; The 1984 Snowbird Report: Future Issues in Computer Science, J. Tartar, ed., May 1985, pp. 490-493; and From Programming Language Design to Computer Construction [Turing Award lecture], N. Wirth, Feb. 1985, pp. 159-164).
- 8528 11 1120 "C Rating for Style," *Goldhammer, A.* (A Style Analysis of C Programs, R.E. Berry and B.A.E. Meekings, Jan. 1985, pp. 80-88).
- 8528 11 1120 "RISC vs. Reward?" *Nelson, D.A.* (Reduced Instruction Set Computers, D.A. Patterson, Jan. 1985, pp. 8-21); response from D.A. Patterson, Nov. 1985, pp. 1120 and 1127.
- 8528 12 1271 "Mutability at the Molecular Level," *Sticklen, J.* (On Design Principles for a Molecular Computer, M. Conrad, May 1985, pp. 464-480); response from M. Conrad, Dec. 1985, p. 1272.
- 8528 12 1272 "Symbolic Mathematical Computation," letters from *Allen, R., and Davenport, J.H., Padget, J.A., and Fitch, J.P.* (Symbolic Mathematical Computation, S. Wolfram, April 1985, pp. 390-394); response from S. Wolfram, Dec. 1985, p. 1274.

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8528	1	99	"COBOL Versus PL/1: Some Performance Comparisons," letters from <i>Kennedy, J.W. Jr., Geller, J., Metz, S.J., and Balasubramanian, V.</i> (article by P.J. Jalics, Mar. 1984, pp. 216-221); response from P.J. Jalics, Jan. 1985, p. 102.
8528	3	322	"A Large Font Virtual Terminal Interface: A Software Prosthesis for the Visually Impaired," letter from <i>Wagner, A.</i> (article by E.P. Glinert and R.E. Ladner, June 1984, pp. 567-572); response from E.P. Glinert Mar. 1985, p. 322; see also letter from M. Bonham and I.H. Witten, Nov. 1985, p. 1236, and response from E.P. Glinert and R.E. Ladner, Nov. 1985, pp. 1236-1237.
8528	3	322	"Software Errors and Complexity: An Empirical Investigation," letter from <i>Botting, R.J.</i> (article by V.R. Basili and B.T. Perricone, Jan. 1984, pp. 42-52); response from V.R. Basili, H.D. Rombach, and R.W. Selby, Mar. 1985, pp. 322-323.
8528	3	323	"Determinants of Program Repair Maintenance Requirements," letter from <i>Ottenstein, L.M.</i> (article by L.L. Gremillion, Aug. 1984, pp. 826-832); response from L.L. Gremillion, Mar. 1985, pp. 323-324.
8528	3	324	"The Evaluation of Text Editors: Methodology and Empirical Results," letter from <i>Allen, R.B.</i> (article by T.L. Roberts and T.P. Moran, Apr. 1983, pp. 265-283); response from T.L. Roberts and T.P. Moran, Mar. 1985, pp. 326-327.
8528	5	534	"Predicative Programming," letter from <i>Parnas, D.L.</i> (article by E.C.R. Hehner, Feb. 1984, pp. 134-143); response from E.C.R. Hehner, May 1985, pp. 536-537; see also letter from <i>Lengauer, C.</i> , May 1985, pp. 537-538, and response by E.C.R. Hehner, May 1985, p. 538.
8528	7	750	"Pass-Algorithms: A User Validation Scheme Based on Knowledge of Secret Algorithms," letter from <i>Putter, P., and Wagner, N.</i> (article by J.A. Haskett, Aug. 1984, pp. 777-781); response from J. Haskett, July 1985, p. 750-751.
8528	7	752	"More on the Study of an Ordered Minimal Perfect Hashing Scheme," letter from <i>Leska, C.J.</i> (refers to letter by T.D. Carroll, Nov. 1984, p. 1156; article by C.C. Chang, Apr. 1984, pp. 384-387); response from T.D. Carroll, July 1985, p. 752; see also letter from J. Suigen, Oct. 1985, p. 1087, and response from C.C. Chang, Oct. 1985, p. 1087.
8528	7	752	"More on Is Ada Too Big?" letter from <i>Fritz, R.E.</i> (refers to letter by D.L. Parnas, Nov. 1984, p. 1155, and response by B. Wichmann, Nov. 1984, pp. 1155-1156; article by B.A. Wichmann, Feb. 1984, pp. 98-103); response from D.L. Parnas, July 1985, p. 753; see also letter from P. Machanick, Nov. 1985, pp. 1237-1238.
8528	10	1086	"Design and Implementation of a Very Small Linear Algebra Program Package," letter from <i>White, G.N. III</i> (article by J.C. Nash, Jan. 1985, pp. 89-94); response from J.C. Nash, Oct. 1985, pp. 1086-1087.
8528	10	1087	"The Study of an Ordered Minimal Perfect Hashing Scheme," letter from <i>Suigen, J.</i> (article by C.C. Chang, Apr. 1984, pp. 384-387); response from C.C. Chang, Oct. 1985, p. 1087.
8528	11	1238	"An Evaluation of Retrieval Effectiveness for a Full-Text Document-Retrieval System," letters from <i>Flass, P.R., Marcus, R., Gilb, T., and Patterson, W.R.</i> (article by D.C. Blair and M.E. Maron, Mar. 1985, pp. 289-299); response by D.C. Blair and M.E. Maron, Nov. 1985, pp. 1240-1242.
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